

**FLAME-RETARDANT BASE MATERIAL**

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**Abstract**

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Aug 8, 1987

DERWENT-ACC-NO: 1987-260887

DERWENT-WEEK: 198737

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TITLE: Flame-retardant plastic sheet - is surface coated with mixt. of water-swelling inorganic laminar silicate and silane coupling agent

PATENT-ASSIGNEE:

ASSIGNEE

CODE

TORAY IND INC

TORA

PRIORITY-DATA: 1986JP-0022896 (February 5, 1986)

PATENT-FAMILY:

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MAIN-IPC

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APPLICATION-DATA:

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INT-CL (IPC): B32B 27/22

ABSTRACTED-PUB-NO: JP 62181144A

BASIC-ABSTRACT:

The surface(s) of a plastic sheet contg. flame-retarding agent is coated with layer(s) of a mixt. of (A) water-swelling inorganic laminar silicate salt and (B) silane coupling agent in wt. ratio of (A)/(B) = 1/1000 - 2/1.

The plastic sheet is pref. stretched polyester sheet or sheet of polypropylene, polyvinylidene fluoride or polyvinyl fluoride. The flame retarding agent to be blended into the plastic sheet is pref. phospholane, phosphine oxide, phosphonate, phosphinate or phosphate,  $\text{CaCO}_3$ ,  $\text{SiO}_2$ , Sb-, N-, B- or halogen-contg. cpd. The silicate flakes are pref. montmorillonite, vermiculite, hydrothermally synthesised tetrasilicic mica, taenolite or hectorite.

USE/ADVANTAGE - The silicate flakes are swollen and dispersed in the dilane-coupling agent uniformly without causing agglomeration so that the substrate is covered completely with a thin layer of flame-retarding mixt.. The prod. is usable as a membrane switch for electrical machines, flexible circuit board for automobile or office machine or laminating or insulating material for building, material or electrical machine.

CHOSEN-DRAWING: Dwg. 0/0

TITLE-TERMS: FLAME RETARD PLASTIC SHEET SURFACE COATING MIXTURE WATER SWELLING INORGANIC LAMINA SILICATE SILANE COUPLE AGENT

DERWENT-CLASS: A18 A23 A60 A94 P73

CPI-CODES: A08-F01; A08-M01D; A08-R06B; A11-C04B2; A12-S06B; A12-S07;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1278U; 1694U

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0037 0205 0210 0060 0171 0226 0248 0843 1291 2221 2222 2223 2224 2225  
2307 2482 2499 2513 2514 2522 2547 2551 2628 3252 2679 2691 2718 2737 2740 2743 2763  
3300 2829 0766

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20- 228 229 303 312 42& 42- 43- 435 44- 466 472 477 494 502 506 509 539 54& 551 560  
566 57& 597 600 613 623 627 628 641 672 688 720 722

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1987-110637

Non-CPI Secondary Accession Numbers: N1987-195182